

ATTY. DOCKET NO. SAMS01-00093

PATENT

RF RECEIVER HAVING IMPROVED SIGNAL-TO-NOISE
RATIO AND METHOD OF OPERATION

ABSTRACT OF THE DISCLOSURE

There is disclosed, for use in a CDMA receiver, a noise
5 reduction circuit for improving the signal-to-noise ratio of a
received CDMA signal comprising a series of chip sequences. The
noise reduction circuit comprises: 1) a sampling circuit for
generating an original plurality of samples of the received signal;
and 2) a controller for determining a first plurality of time slots
10 containing chip samples equal to Logic 1, and a second plurality of
time slots containing chip samples equal to Logic 0. The
controller generates a reconstructed plurality of samples by at
least one of: a) modifying an order of a first Logic 1 chip sample
and a second Logic 1 chip sample; and b) modifying an order of a
15 first Logic 0 chip sample and a second Logic 0 chip sample.